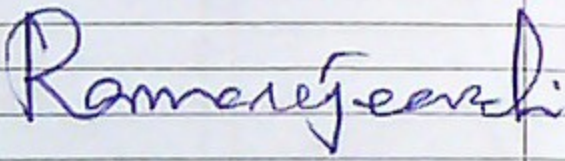
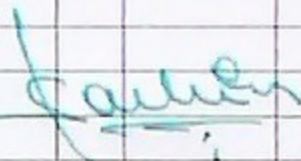
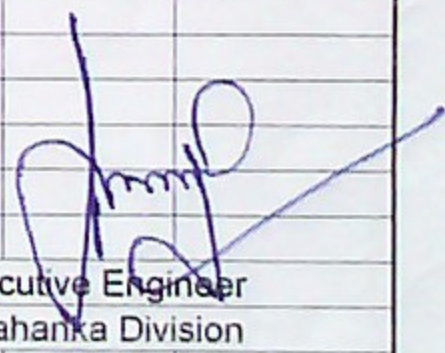


# BRUHAT BANGALORE MAHANAGARA PALIKE

**Name of Work: Construction of CC Roads to main and cross roads of Chikkabommasandra in ward no. 04**

| SI No | Description of work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit    | No | Length<br>m | Breadth<br>m | Depth<br>m | Quantity | Rate<br>in Rs | Amount<br>in Rs |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|-------------|--------------|------------|----------|---------------|-----------------|
| 1     | KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)                                                                                                                                                            |         |    |             |              |            |          |               |                 |
|       | For RCC Drain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cum     |    |             |              |            |          |               |                 |
|       | Cross Road-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | 1  | 44.00       | 1.40         | 1.20       | 73.92    |               |                 |
|       | Cross Road-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | 1  | 45.00       | 1.10         | 0.90       | 44.55    |               |                 |
|       | Culvert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         | 1  | 8.60        | 1.50         | 0.90       | 11.61    |               |                 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |    |             |              |            | 130.08   | 215.28        | 28003.62        |
|       | Basic Rate Rs.=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130.00  |    |             |              |            |          |               |                 |
|       | Add 6% A.W Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7.80    |    |             |              |            |          |               |                 |
|       | Sub Total =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 137.80  |    |             |              |            |          |               |                 |
|       | 8Km Lead, Loading and Unloading<br>=(2*1.28*8)+57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 77.48   |    |             |              |            |          |               |                 |
|       | Total Rate Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 215.28  |    |             |              |            |          |               |                 |
| 2     | KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222, I No-27.18)                                                                                              |         |    |             |              |            |          |               |                 |
|       | For RCC Drain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cum     |    |             |              |            |          |               |                 |
|       | Patel Sri Sanjeevappa Rd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |    |             |              |            |          |               |                 |
|       | Cross Road-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | 1  | 44.00       | 1.40         | 0.15       | 9.24     |               |                 |
|       | Cross Road-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | 1  | 45.00       | 1.10         | 0.15       | 7.43     |               |                 |
|       | Culvert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         | 1  | 8.60        | 1.50         | 0.15       | 1.94     |               |                 |
|       | For Concrete Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |    |             |              |            |          |               |                 |
|       | Road 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         | 1  | 35.00       | 4.80         | 0.150      | 25.20    |               |                 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |    |             |              |            | 43.80    | 5421.90       | 237479.22       |
|       | Basic Rate Rs.=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5115.00 |    |             |              |            |          |               |                 |
|       | Add 6% A.W Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 306.90  |    |             |              |            |          |               |                 |
|       | Total Rate Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5421.90 |    |             |              |            |          |               |                 |
| 3     | Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centring shuttering cost of material HOM of machinery curing etc., complete excluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&I WTD S.R 2018-19) |         |    |             |              |            |          |               |                 |
|       | For RCC Drain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cum     |    |             |              |            |          |               |                 |
|       | Patel Sri Sanjeevappa Rd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |    |             |              |            |          |               |                 |
|       | Bottom slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |    |             |              |            |          |               |                 |
|       | Cross Road-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |    |             |              |            |          |               |                 |
|       | Cross Road-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | 1  | 44.00       | 1.20         | 0.15       | 7.92     |               |                 |
|       | side walls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         | 1  | 45.00       | 0.90         | 0.15       | 6.08     |               |                 |
|       | Cross Road-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | 2  | 44.00       | 0.20         | 1.10       | 19.36    |               |                 |

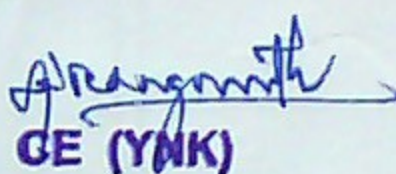
| SI No | Description of work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unit     | No | Length | Breadth | Depth    | Quantity | Rate in Rs | Amount in Rs |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|--------|---------|----------|----------|------------|--------------|
|       | Cross Road-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | 2  | 45.00  | 0.15    | 0.60     | 8.10     |            |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |    |        |         |          | 41.46    |            |              |
|       | Culvert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |    |        |         |          |          |            |              |
|       | Raft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          | 1  | 8.60   | 1.30    | 0.23     | 2.57     |            |              |
|       | Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          | 2  | 8.60   | 0.23    | 0.60     | 2.37     |            |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |    |        |         |          | 4.95     |            |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |    |        |         | Net Qty. | 46.40    | 7070.20    | 328057.28    |
|       | Basic Rate Rs.=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6670.00  |    |        |         |          |          |            |              |
|       | Add 6% A.W Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 400.20   |    |        |         |          |          |            |              |
|       | Total Rate Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7070.20  |    |        |         |          |          |            |              |
| 4     | KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebtrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWT D S.R 2018-19) |          |    |        |         |          |          |            |              |
|       | Considering steel For culvert @ 90 kg / cum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Tonne    |    | 4.95   | 0.090   | --       | 0.45     |            |              |
|       | Considering steel For Drain @ 60 kg / cum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Tonne    |    | 41.46  | 0.060   | --       | 2.49     |            |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |    |        |         |          | 2.93     | 73992.24   | 216971.14    |
|       | Basic Rate Rs.=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 69804.00 |    |        |         |          |          |            |              |
|       | Add 6% A.W Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4188.24  |    |        |         |          |          |            |              |
|       | Total Rate Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 73992.24 |    |        |         |          |          |            |              |
| 5     | Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)                                                                                                                                                                                              |          |    |        |         |          |          |            |              |
|       | For drain cover slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sqm      |    |        |         |          |          |            |              |
|       | Cross Road-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | 1  | 44.00  | 1.20    | --       | 52.80    |            |              |
|       | Cross Road-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | 1  | 45.00  | 0.90    | --       | 40.50    |            |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |    |        |         |          | 93.30    | 2337.00    | 218042.10    |
| 6     | Providing and fixing RCC precast cover slab of 250mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)                                                                                                                                                                                              |          |    |        |         |          |          |            |              |
|       | Culvert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sqm      | 1  | 8.60   | 1.20    | --       | 10.32    |            |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |    |        |         |          | 10.32    | 5418.00    | 55913.76     |
| 7     | KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 with 8km lead= ( I No-18.47,P No-140)                                                                                                                                                  |          |    |        |         |          |          |            |              |
|       | For Concrete Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cum      |    |        |         |          |          |            |              |
|       | Road 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          | 1  | 35.00  | 4.80    | 0.200    | 33.60    |            |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |    |        |         |          | 33.60    | 973.42     | 32706.91     |
|       | Basic Rate Rs.=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 899.00   |    |        |         |          |          |            |              |

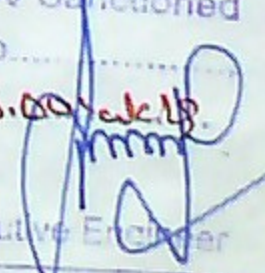
| SI No | Description of work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Unit    | No | Length<br>m | Breadth<br>m | Depth<br>m | Quantity | Rate<br>in Rs   | Amount<br>in Rs |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|-------------|--------------|------------|----------|-----------------|-----------------|
|       | Add 6% A.W Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 53.94   |    |             |              |            |          |                 |                 |
|       | Sub Total =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 952.94  |    |             |              |            |          |                 |                 |
|       | 8Km Lead, Loading and Unloading<br>=(2*1.28*8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20.48   |    |             |              |            |          |                 |                 |
|       | Total Rate Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 973.42  |    |             |              |            |          |                 |                 |
| 8     | Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum, Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour, hire charges of machineries, all lead & lift charges etc., complete as per specifications. (P.No-176, I No-22.6.1) |         |    |             |              |            |          |                 |                 |
|       | For Concrete Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cum     |    |             |              |            |          |                 |                 |
|       | Road 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         | 1  | 35.00       | 4.80         | 0.150      | 25.20    |                 |                 |
|       | Cross Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         | 1  | 40.00       | 2.90         | 0.150      | 17.40    |                 |                 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |    |             |              |            | 42.60    | 5210.96         | 221986.90       |
|       | Basic Rate Rs.=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4916.00 |    |             |              |            |          |                 |                 |
|       | Add 6% A.W Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 294.96  |    |             |              |            |          |                 |                 |
|       | Total Rate Rs. =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5210.96 |    |             |              |            |          |                 |                 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |    |             |              |            |          | Sub Total 1 Rs. | 1339160.94      |
|       | Add GST @ 12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |    |             |              |            |          |                 | 160699.31       |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |    |             |              |            |          | Sub Total 2 Rs. | 1499860.25      |
|       | Miscellaneous & Rounding off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |    |             |              |            |          |                 | 139.75          |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |    |             |              |            |          | Total Rs.       | 1500000.00      |
|       | <b>CERTIFICATE:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |    |             |              |            |          |                 |                 |
|       | 1 The work spot has been inspected by me and the work is found to be necessary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |    |             |              |            |          |                 |                 |
|       | 2 The estimate is prepared as per PW, P&I WTD S.R Bangalore circle for the year 2018-2019.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |    |             |              |            |          |                 |                 |
|       | 3 The Provisions made in the estimate are quite necessary and adequate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |    |             |              |            |          |                 |                 |
|       | 4 The area comes with in the BBMP limits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |    |             |              |            |          |                 |                 |
|       | <br>Assistant Engineer<br>Ward 04<br>BBMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |    |             |              |            |          |                 |                 |
|       | <br>Assistant Executive Engineer<br>Yelahanka Newtown Sub Division<br>BBMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |    |             |              |            |          |                 |                 |
|       | <br>Executive Engineer<br>Yelahanka Division<br>BBMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |    |             |              |            |          |                 |                 |

### Administrative Approval

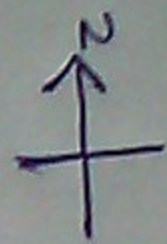
Accorded For Rs 15.00 lakhs only  
Head of A/C P1274  
CER NO : 202 Dt: 22.03.2020

  
TA

  
CE (Ynk)

TECHNICALLY SANCTIONED FOR Rs. 15.00 lakhs  
Rupees Fifteen lakhs only  
Under 2018-20 P&I WTD WORKS  
P-17.7.1  
Registered as CE ( ) No. 9 9  
Subject to conditions contained in  
enclosed memo EE ( ) No. 19/  
Dt. EE/YNK/TS/43/2020-21 No. 19/  
Estimate A/ Sanctioned  
Dated 12/4/2020 Rs. 15.00 lakhs  
  
Executive Engineer

Construction of C.C Roads to main and cross roads of Chikka Bommabandra in Ward No.-04.



Ramangarsh

*Signature*

— C.C Road  
— RCC drain